## 14148

## Important updated prescribing information LANOXIN® (digoxin) Tablets

OUR LABELING HAS CHANGED, BUT NOT THE PRODUCT Recent pharmacokinetic studies of digoxin using radioimmunossay suggest that serum levels within the therapeutic range (1 to 2 ng/ml) can be achieved with doses lower than those previously recommended.

recommended.

As the discovere of digoral and the leading manufacturer of this product. B. W. et al. (1997) and the leading manufacturer of this product. B. W. et al. (1997) and the design recommended of the design recommended on the design recommended

Brief Summary of Prescribing Information: Lanoxin® (digoxin)
Contraindications: The presence of toxic effects induced by any digitalis preparation is a contraindication to all of the cardiac glycosides.

Alfergy, though area does accur. It may not extend to all preparations and another may be tried, and another may be tried.

Alfergy, though area does accur. It may not extend to all preparations and another may be tried.

Warnings: Dosage must be carefully iterated. Monitoring of ECG and serum digoxin levels may be necessary to avoid intoxication. Many arrhythmias for which digitalis is advised are Identical with those reflecting digitalis intoxication. If the possibility of digitalis intoxication. Patients with congestive heart failure may combine of histoxication. Patients with congestive heart failure may combine of histoxication. Clinical determination of the cause of these symptoms must be attempted before further drug administration. Patients with renal insufficiency are apt to be unusually sensitive to digoxin.

digoxin. The use of digitalis glycosides in the treatment of obesity is

dangerous.

Precautions: Atrial arrhythmias associated with hypermetabolic and febrile states are particularly resistant to digitalis treatment. Care must be taken to avoid digitalis toxicity if digoxin is used to help control the arrhythmia.

be taken to avoid digitalis toxicity if digoxin is used to net portion are arrhythmia. Potassium depletion sensitizes the myocardium to digitalis and toxicity is apt to develop even with usual dosage. Potassium wastage may result from diuretics, corticosteroids, hemodialysis, malhurition, old age, and long-standing congestive heart failure. Acute myocardial inflanction, severe pulmonary disease, or far advanced heart failure often are accompanied by a greater sensitivity to digitalis and its disturbances of rhythm. Calcium may produce serious arrhythmias in digitalized patients. With myxedema, digitalis requirements are less. Incomplete AV block, especially in patients subject to Stokes-Adams attacks, may develop to advanced or complete heart block when cardiac glycosides are given. Chronic constrictive pericardiis is apit to respond unfavorably to digitalis.

digitalis. Idiopathic hypertrophic subaortic stenosis must be managed with

great care. Renal insufficiency delays the excretion of digitalis, and dosage must be adjusted accordingly in patients with renal disease. Electrical conversion of arrhythmias may require adjustment of

Electrical conversion of arrnythmias may require adjustment of digitalis dosage. Congestive failure accompanying acute glomerulonephritis requires extreme care in digitalization. Rheumatic carditis, especially when severe, clauses sensitivity to digitals. If heart failure develops, digitalization may be tried with

digitals: If heart lailure develops, digitalization may be tried with caution. A digitalis preparation must be used with caution in cases of ventricular tachycardia, in which case it is indicated only if congestive heart lailure is a contributing factor. If the patient has been given digoxin during the previous week, or any other less rapidly excreted drug of the digitalis group during the previous two weeks, the dose of Lanoxin brand Digoxin must be reduced accordingly. Because of impaired renal function and excretion in edidity patients, they frequently require lower than recommended doses.

Dosage of digoxin must be carefully titrated and differences in the bipavailability of parenteral preparations, elixirs and tablets taken into account when changing patients from one preparation to another. Adverse Reactions:
Gynecomastia.
Overdose or toxic effects in children.
The toxic signs differ from the adult in a number of respects. Vomiting and diarrhea, neurologic, and ophthalmological disturbances are rare as initial signs. Cardiac arrhythmias are the more reliable and frequent signs of toxicity. Premonitory signs of toxicity (in the newborn are undue slowing of the sinus rate, smoathal arrest, and prolongation of the PR interval. Oxforoia, nausea, vomiting, and diarrhea are the most common early symptoms of overdose in the adult. Uncontrolled heart failure may else produce such symptoms. Acroixed, nausea, vomiting, and diarrhea are the most common early symptoms of overdose in the adult. Uncontrolled heart failure may elsea produce such symptoms of oligitalis toxicity in adults. Ventricular premature ectopic activity is the most common arrhythmia, except in infants and young children where nodal and rail arrhythmias are more common. Excessive slowing of the pulse is a clinical sign of digitalis overdose. Attroventricular block of increasing degree may proceed to complete neart block.

ECG is fundamental in determining the presence and nature of these toxic disturbances. Digitalis may also induce other changes (as of the ST segment), but these provide no measure of the degree of digitalisation.

Treatment of Toxic Effects Produced by Overdose. Digitalis is discontinued until after all signs of toxicity are abolished.

Potassium chloride may be given in divided doses totaling 4 to 6 g for adults (in children, 1/61. 5 mEq. per kg), provided renal function is adequate. ECG monitoring is indicated to avoid popassium toxicity.

e.g. peaking of T waves.

Caution: Potassium should not be used and may be dangerous in individent occurrence, discontinued didocaine, quindine, proceanamide, and beta-adrenergic bl

intoxication include lidocaine, quinidine, procainamide, and beta-adrenergic blocking agents.

Desage and Administration:

Recommended doses are practical average figures which may reduire considerable modification as dictated by individual sensitivity or associated conditions. Diminished renal function is the most important factor which requires modification of recommended or average doses. Clearance of digoxin from the serum is proportional to the olomerular litration rate as estimated by renal creatinine clearance, he excretion of digoxin thus varies directly with creatinine clearance, he excretion of digoxin thus varies directly with creatinine clearance, and the ratio of the two clearances is near unity. As a result, an estimate of creatinine clearance gives a reasonable value for digoxin clearance, and a dose of digoxin may be reduced in proportion the observed creatinine clearance.

Childran 2 to 10 Years of Age.

The total dose of Lanoxin brand Digoxin for complete digitalization of completed waintenance therapy is 20 to 30 percent of the digitalization of completed waintenance therapy is 20 to 30 percent of the digitalizing dose administered each day.

Children 10 Years of Age and Over.

Children 10 years of Age and Over require adult proportions by weight. Maintenance therapy is 20 to 30 percent of the digitalizing dose administered each day.

Adults.

The average digitalizing dose (i.e., amount accumulated) with dispose

